

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1-24. (Canceled)

25. (New) A polyphased rotating electrical machine comprising:

an outer frame comprising a rear bearing;
a cover configured to be mounted on the rear bearing;
a polyphased wound stator comprising a plurality of phase outputs; and
a phase connector configured to connect to the plurality of phase outputs and configured
to connect to an exterior electronic module,
wherein the cover is configured to support the phase connector.

26. (New) The polyphased rotating electrical machine of claim 25, wherein the cover comprises
electrically insulating material.

27. (New) The polyphased rotating electrical machine of claim 25, wherein the phase connector
is supported by a first projection extending from the cover.

28. (New) The polyphased rotating electrical machine of claim 27, wherein the first projection is
configured to be mounted on the rear bearing.

29. (New) The polyphased rotating electrical machine of claim 28, wherein the first projection is
arranged on an external peripheral portion of the cover.

30. (New) The polyphased rotating electrical machine of claim 29, wherein the phase connector
is offset by the first projection to a location beyond the external peripheral portion of the cover.

31. (New) The polyphased rotating electrical machine of claim 28, wherein the first projection
comprises support arms extending from the cover.

32. (New) The polyphased rotating electrical machine of claim 31, wherein the cover comprises
an external peripheral skirt and a bottom, and the support arms are integrated with the external
peripheral skirt of the cover and the bottom of the cover.

33. (New) The polyphased rotating electrical machine of claim 31, wherein the support arms are connected by a flange that carries the phase connector.
34. (New) The polyphased rotating electrical machine of claim 33, wherein the phase connector has a rod crossing the flange and the rod is integrated with a support tab attached to the rear bearing.
35. (New) The polyphased rotating electrical machine of claim 34, wherein the support tab is supported on a chimney integrated with the rear bearing and is perforated for the passage of a mounting element in the chimney.
36. (New) The polyphased rotating electrical machine of claim 35, wherein the phase connector comprises a hollow protuberance carried by the flange, the rod crosses the flange and the protuberance, and the support tab comprises a second projection mounted inside the protuberance.
37. (New) The polyphased rotating electrical machine of claim 36, wherein the second projection is supported on a perforated part, which is perforated for passage of the rod, and the perforated part is made of thermoset plastic material resistant to creep attached by cast molding to the inside of the protuberance.
38. (New) The polyphased rotating electrical machine of claim 37, wherein the rod is threaded.
39. (New) The polyphased rotating electrical machine of claim 33, wherein the phase connector is connected to phase connection inputs by electrical conductors at least partially sunk in the first projection.
40. (New) The polyphased rotating electrical machine of claim 39, wherein the electrical conductors comprise electrical tracks, and at least two electrical tracks are installed, each electrical track connected to an electrical contact face of the phase connector.
41. (New) The polyphased rotating electrical machine of claim 40, wherein the electrical tracks are sunk in the cover, in the support arms, and in the flange.

42. (New) The polyphased rotating electrical machine of claim 27, wherein the phase connector is connected to phase connection inputs by electrical conductors at least partially sunk in the first projection, and the phase connection inputs extend to the external periphery of the cover and are covered by a secondary cover mounted on the cover and made of electrically insulating material.

43. (New) The polyphased rotating electrical machine of claim 42, wherein the secondary cover is in the shape of a circle arc, the phase connection inputs comprise mounting tabs, and the secondary cover has hollow bosses configured to house the mounting tabs.

44. (New) The polyphased rotating electrical machine of claim 27, wherein a brush holder is covered by the cover and is associated with a brush holder connector, and the brush holder connector is integrally formed with the cover.

45. (New) The polyphased rotating electrical machine of claim 44, wherein the cover has a bottom, and the brush holder connector is connected to the brush holder by electrically conducting tracks sunk in the bottom of the cover.

46. (New) The polyphased rotating electrical machine of claim 45, wherein the polyphased rotating electrical machine is an alternator-starter further comprising:

a sensor holder; and

a sensor holder connector,

wherein the sensor holder is mounted under the bottom of the cover, and the sensor holder connector passes radially through an opening in a peripheral annular wall of the cover.

47. (New) The polyphased rotating electrical machine of claim 44, wherein the cover comprises two parts, one part has the phase connector and the other part covers the brush holder.

48. (New) The polyphased rotating electrical machine of claim 25, wherein the polyphased rotating electrical machine is an alternator.

49. (New) The polyphased rotating electrical machine of claim 25, wherein the polyphased rotating electrical machine is an alternator-starter.